



Attorney Docket N<sup>o</sup> UKRF-120RCE

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

*Christopher O Jaynes, Ph.D. & Divya Ramakrishnan*

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)  
) Exr: < KOVAL, Melissa J.>

Serial No.: 10/827,176

Confirm No. 2449

)  
) Art Unit: 2851

Filed: 19 April 2004

For: Super-Resolution Overlay in Multi-projector Displays

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Mail Stop IDS & 1449

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT and CERTIFICATION**

Sir:

Pursuant to 37 C.F.R. §§ 1.51(b), 1.56, 1.97 and 1.98, this Information Disclosure Statement is submitted in the above-identified patent application. A list of documents to be published on the face of any patent granted from this application is submitted herewith on PTO/SB/08B (substitute to PTO-1449); these references were forwarded to the PTO by applicants in connection with their provisional app. to which priority was granted herein. In the event any of the items listed on Form SB/08B have no specific month and/or date of publication identified: it is believed that the particular month and/or date of publication of these items is not of particular significance at this point in time; and by including these items herewith applicants do not, in any way, suggest that any of them bear a particular publication date that precedes the instant invention date. A copy of each non-U.S./foreign patent document, or each publication or portion thereof listed or herein identified, is being submitted herewith, *except that* NO copy of any U.S. patent application identified herein or any patent, publication or other information listed herein cited or submitted in a prior application relied upon for an earlier filing date under 35 U.S.C. §§ 119 & 120, and NO hard copy of each U.S. patent and U.S. published patent app.<sup>1</sup> listed, is being submitted herewith.

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<sup>1</sup> See, MPEP § 609 III. A(2) **Legible Copies**. "...with the exception that copies of such U.S. patent documents [published U.S. patent apps. and U.S. patents] are not required if the IDS is electronically submitted via EFS or the IDS is filed in an application filed after June 30, 2003 or entered the national stage under 35 U.S.C. 371 after June 30, 2003 ..."

### CERTIFICATION

\_\_\_\_\_ This Information Disclosure Statement is submitted within three months of (i) the filing date of the above-identified U.S. National Patent application, or (ii) the date of entry into the U.S. National Stage of the above-identified International Application, or (iii) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies.

X This Information Disclosure Statement, and any associated *on-line* e-IDS, is being submitted *prior to the receipt* of the first Office Action *on the merits*<sup>2</sup> received by applicant(s) in the above-identified RCE application.

\_\_\_\_\_ This Information Disclosure Statement is submitted after three months from (i) the filing date of the above-identified U.S. National Patent application, or (ii) after three months from entry into the U.S. National Stage of the above-identified International Application, or (iii) the date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies; and after the mailing date of the first Office Action on the merits of the above-identified application, but prior to issuance of the earlier of any Final Action or Notice of Allowance sent in such application. The certification under 37 C.F.R. § 1.97(e) is submitted separately or below, or the fee required under 37 C.F.R. § 1.97(c) and § 1.17(p) is submitted herewith.

The Examiner is requested to acknowledge consideration of the information provided in this paper in accordance with prescribed procedures.

While it is believed no additional charge is due as a result of filing this document, please charge any additional fees or credit any overpayments in connection with this paper to:  
Deposit Acct. N<sup>o</sup> 02-0725,

**Macheledt Bales LLP.**

Respectfully submitted this 11<sup>th</sup> day of January 2005,

  
Jean M. Macheledt

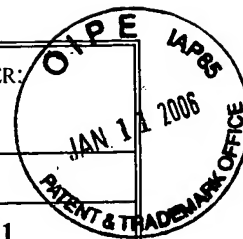
**Macheledt Bales & Heidmiller LLP**

Attorney for Assignee/Applicant(s)

Registration N<sup>o</sup> 33,956

<sup>2</sup> See, MPEP § 609 III. B(1)(a), Likewise, an information disclosure statement will be considered if it is filed later than 3 months after the application filing date but before the mailing date of a first Office action on the merits. An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirement . . . or just a requirement for additional fees to have a claim considered . . .

Form PTO 1449 & PTO/SB/08B Reference Documents submitted prior to action on merits in RCE, 11-Jan-2006	ATTY. DOCKET NUMBER:	PATENT APPLICATION NUMBER:
	<b>UKRF-120RCE</b>	<b>10/827,176</b>
U.S. Patent & Trademark Office	APPLICANT(S): <b>C. Jaynes, Ph.D. and D. Ramakrishnan</b>	
Information Disclosure Statement of both US & non-US patent refs	FILING DATE: <b>19 April 2004</b> {PROV. APP. FILED: April 2003}	GROUP ART UNIT: <b>2851</b> Examiner: <b>KOVAL, Melissa J.</b>



**U.S. Patent Documents & published U.S. patent apps. (listing submitted on-line: <none>)**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	US 2002/63807 A1	30-May-2002	Margulis, Neal ✓	348	745	

**Other Documents—\*\*listed for reference, a copy of each item listed is enclosed.**

EXAMINER INITIAL	DOCUMENT DETAILS
	M. ELAD and A. FEUER, "Restoration of Single Super-Resolution Image from Several Blurred, Noisy and Under Sampled Measured Images," <i>IEEE Transactions on Image Processing</i> , vol. 6, no. 12, pp. 1646-58 (December 1997); {labeled "ATTACHMENT C" of applicants' provisional app. filed in April 2003 as background information} ✓
	A. MAJUMDER and G. WELCH, "Computer Graphics Optique: Optical Superposition of Projected Computer Graphics," <i>Fifth Immersive Projection Technology Workshop, Seventh Eurographics Workshop on Virtual Environments</i> , Stuttgart, Germany Springer-Verlag (May 2001) 8 pages {labeled "ATTACHMENT D" of applicants' provisional app. filed in April 2003} ✓
	S. BAKER and T. KANADE, "Limits on Super-Resolution and How to Break Them," <i>Int. Conf. Computer Vision &amp; Pattern Recognition</i> , Vol. 2 (2000) pp. 372-379; {labeled "ATTACHMENT E" of applicants' provisional app. filed in April 2003} ✓
	R. STEELE and Christopher JAYNES, "Monitoring and Correction of Geometric Distortion in Projected Displays," <i>Central European Conference on Computer Graphics and Computer Vision</i> , (04 -08 February 2002) {labeled "ATTACHMENT G" of applicants' provisional app. filed in April 2003} ✓
Examiner:	Date Considered:
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	